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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/607,010	06/29/2000	Masato Okabe	CU-2263 TFP	7333	
75	90 01/27/2004		EXAMINER		
Ladas & Parry		MCPHERSON, JOHN A			
224 South Mich Chicago, IL 60		ART UNIT	PAPER NUMBER		
			1756		
			DATE MAILED: 01/27/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Applicat	tion No.	Applicant(s)				
		09/607,0	010	OKABE ET AL.	****			
		Examine	er	Art Unit				
			McPherson	1756				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)[🖂	Responsive to communication(s) filed	on <u>14 November</u>	<u>2003</u> .					
2a)⊠	This action is FINAL . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)⊠ 6)⊠ 7)□	 4) Claim(s) 29-33 and 36-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 31-33,46-48,51 and 53 is/are allowed. 							
Application Papers								
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 								
Priority under 35 U.S.C. §§ 119 and 120								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 								
Attachmen			_					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC mation Disclosure Statement(s) (PTO-1449) Pap			Summary (PTO-413) Paper No(s Informal Patent Application (PTO				

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Art Unit: 1756

DETAILED ACTION

Response to Amendment

- 1. This Office Action is responsive to the Amendment filed 11/14/03.
- 2. The Amendment filed 11/14/03 successfully overcomes the rejection set forth in paragraph 2 of the Office Action dated 6/23/03. Accordingly, this rejection is withdrawn.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 29-30, 36-45, 49-50, 52 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO0/08158 (WO '158) in view of EP 0 665 449 (EP '449) for the reasons of record as set forth in paragraph 5 of the Office Action dated 11/1/02, and as further discussed below.

Response to Arguments

4. Applicant's arguments filed 11/14/03 have been fully considered but they are not persuasive.

With respect to claims 29 and 44, Applicant argues that there is no description about the fluorine content being greatly reduced by the energy irradiation in either of the

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cited references WO99/08158 and EP 0 665 449. However, WO99/08158 discloses that the photocatalyst-containing layer comprises a silicone resin binder, with the silicon resin having organic groups bonded to the silicon atoms, wherein upon irradiation the organic groups bonded to the silicon atoms in the silicon molecule are replaced with oxygen-containing groups, resulting in improved wettability (see column 13, line 66 to column 14. line 5 of US 6,294,313, which issued from the national stage application of Japanese-language WO99/08158). In a preferred embodiment the silicon molecule contains fluoroalkyl groups bonded to the silicon atoms (see column 15, line 23 to column 16, line 2 of US 6,294,313). While WO99/08158 does not disclose a maximum value of 10 parts per 100 or less for the remaining fluorine content of the irradiated part relative to the non-irradiated part, it would have been obvious to one skilled in the requisite art to arrive at the value of the present invention because it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art (In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)), and it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art (In re Aller, 105) USPQ 233).

Allowable Subject Matter

5. Claims 31-33, 46-48, 51 and 53 are allowed.

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Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. McPherson whose telephone number is (571) 272-1386. The examiner can normally be reached on Monday through Friday, 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

John A. McPherson Primary Examiner Art Unit 1756

JAM 1/21/04